AMENDMENTS TO THE CLAIMS

Claims 1-28 are pending in the instant application. The Applicant requests reconsideration of the claims in view of the following remarks.

Listing of claims:

1. (Previously presented) A multi-mode wireless communication device, comprising:

a first baseband co-processor configured to execute low-level stack operations of a first wireless communications protocol employed within a first wireless communications network;

a host baseband processor configured to execute a set of protocol stack operations of a second wireless communications protocol employed within a second wireless communications network and higher-level stack operations of said first wireless communications protocol;

a data communication channel between said host baseband processor and said first baseband co-processor capable of carrying data received by said multimode wireless communication device from said first wireless communications network or sent by said multi-mode wireless communication device through said first wireless communications network; and

one or both of said first baseband co-processor and said host baseband processor enabling switching between bearers utilizing said low-level stack operations and said set of protocol stack operations and maintaining bearer connections during said switching.

2. (Original) The device of claim 1 wherein said set of protocol stack operations comprises a complete set of protocol stack operations of said second wireless communications protocol.

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3. (Previously presented) The device of claim 1 further comprising a second

baseband processor in communication with said host baseband processor via said data

communication channel, said second baseband processor being configured to execute

low-level stack operations of said second wireless communications protocol.

4. (Original) The device of claim 3 wherein said set of protocol stack

operations comprises higher-level protocol stack operations of said second wireless

communications protocol.

5. (Previously presented) The device of claim 1 wherein said low-level stack

operations include physical layer functions and bearer-specific stack functions related to

said first wireless communications protocol.

6. (Previously presented) The device of claim 1 wherein said higher-level

stack functions comprise stack functions common to said first and second wireless

communication protocols.

7. (Original) The device of claim 1 wherein said host baseband processor is

further configured to execute application-layer functions.

8. (Previously presented) The device of claim 1 wherein said first baseband

co-processor comprises:

a first physical layer module for implementing physical layer functions,

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a first bearer-specific module for implementing bearer-specific stack functions related to said first wireless communications protocol, and

a first buffer in communication with said first physical layer module and said first bearer-specific module.

- 9. (Previously presented) The device of claim 8 wherein said first baseband co-processor comprises a second buffer in communication with said first bearer-specific module and said data communication channel.
- 10. (Previously presented) The device of claim 9 wherein said host baseband processor comprises a common stack functions module and one or more application modules, said common stack functions module executing functions common to said first and second wireless communications protocols.
- 11. (Previously presented) The device of claim 10 wherein said host baseband processor comprises a third buffer in communication with said stack functions module and said one or more application modules.
- 12. (Original) The device of claim 1 wherein said first wireless communications protocol comprises WCDMA and said second wireless communications protocol comprises GSM.
- 13. (Previously presented) A method performed in a wireless communication device disposed for communication with first and second wireless communications

networks in accordance with first and second wireless communication protocols, respectively, said method comprising:

executing low-level stack operations of said first wireless communications protocol within a first baseband co-processor;

executing a set of protocol stack operations of a second wireless communications protocol and higher-level stack operations of said first wireless communications protocol within a host baseband processor;

establishing a data communication channel between said host baseband processor and said first baseband co-processor capable of carrying data received by said wireless communication device from said first wireless communications network or sent by said wireless communication device through said first wireless communications network; and

switching between bearers utilizing said low-level stack operations and said set of protocol stack operations and maintaining bearer connections during said switching.

- 14. (Original) The method of claim 13 wherein said executing said set of protocol stack operations comprise executing a complete set of protocol stack operations of said second wireless communications protocol.
- 15. (Previously presented) The method of claim 13 further comprising executing low-level stack operations of said second wireless communications protocol within a second baseband processor in communication with said host baseband processor via said data communication channel.

- 16. (Original) The method of claim 15 wherein said executing said set of protocol stack operations comprises executing higher-level protocol stack operations of said second wireless communications protocol.
- 17. (Previously presented) The method of claim 13 wherein said executing said low-level stack operations comprises executing physical layer functions and bearer-specific stack functions related to said first wireless communications protocol.
- 18. (Previously presented) The method of claim 17 wherein said executing higher-level stack functions comprises executing stack functions common to said first and second wireless communication protocols.
- 19. (Previously presented) A multi-mode wireless communication device, comprising:
- a first bearer-specific processor configured to execute low-level stack operations of a first wireless communications protocol employed within a first wireless communications network:
- a second bearer-specific processor configured to execute low-level stack operations of a second wireless communications protocol employed within a second wireless communications network;
- a primary processor configured to execute higher-level stack operations common to said first and second wireless communications protocols;

a radio transceiver;

means for communicating data between said radio transceiver, said primary processor, said first bearer-specific processor and said second bearer-specific processo; and

one or any combination of said first bearer-specific processor, said second bearer-specific processor and said primary processor enabling switching between bearers utilizing said low-level stack operations and said set of protocol stack operations and maintaining bearer connections during said switching.

- 20. (Previously presented) The device of claim 19 wherein said low-level stack operations of said first wireless communications protocol include physical layer functions and bearer-specific stack functions related to said first wireless communications protocol.
- 21. (Previously presented) The device of claim 19 wherein said low-level stack operations of said second wireless communications protocol comprise physical layer functions and bearer-specific stack functions related to said second wireless communications protocol.
- 22. (Original) The device of claim 19 wherein said primary processor is further configured to execute application-layer functions.
- 23. (Previously presented) A multi-mode wireless communication device, comprising:
- a first integrated circuit configured to execute low-level stack operations of a first wireless communications protocol employed within a first wireless communications network:
- a second integrated circuit configured to execute low-level stack operations of a second wireless communications protocol employed within a second wireless communications network;

a third integrated circuit configured to execute higher-level stack operations of said first wireless communications protocol and of said second wireless communications protocol;

a first data communications channel between said first integrated circuit and said third integrated circuit; and

a second data communications channel between said second integrated circuit and said third integrated circuit; and

one or any combination of said first integrated circuit, said second integrated circuit, and said third integrated circuit enabling switching between bearers utilizing said low-level stack operations and said set of protocol stack operations and maintaining bearer connections during said switching.

- 24. (Previously presented) The device of claim 23 wherein said low-level stack operations of said first wireless communications protocol include physical layer functions and bearer-specific stack functions related to said first wireless communications protocol.
- 25. (Previously presented) The device of claim 23 wherein said low-level stack operations of said second wireless communications protocol comprise physical layer functions and bearer-specific stack functions related to said second wireless communications protocol.
- 26. (Previously presented) The device of claim 23 wherein said third integrated circuit is further configured to execute application-layer functions.

- 27. (Previously presented) A multi-mode wireless communication device, comprising:
- a first baseband co-processor configured to execute low-level stack operations of a first wireless communications protocol employed within a first wireless communications network;
- a host baseband processor configured to execute a set of protocol stack operations of a second wireless communications protocol employed within a second wireless communications network and higher-level stack operations of said first wireless communications protocol;
- a data communication channel between said host baseband processor and said first baseband co-processor capable of carrying data received by said multimode wireless communication device from said first wireless communications network or sent by said multi-mode wireless communication device through said first wireless communications network;

wherein said first baseband co-processor comprises:

- a first physical layer module for implementing physical layer functions,
- a first bearer-specific module for implementing bearer-specific stack functions related to said first wireless communications protocol, and
- a first buffer in communication with said first physical layer module and said first bearer-specific module;
- wherein said first baseband co-processor includes a second buffer in communication with said first bearer-specific module and said data communication channel; and
- wherein said host baseband processor includes a common stack functions module and one or more application modules, said common stack functions module executing functions common to said first and second wireless communications protocols.

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28. (Previously presented) The device according to claim 27, wherein said host baseband processor includes a common stack functions module and one or more application modules, said common stack functions module executing functions common to said first and second wireless communications protocols.